## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) Circuit A circuit to reduce the variations of [[the]] an auto-supply voltage [[Vcc]] of a control circuit [[(12)]] of a switching power supply [[where]] wherein said control circuit [[(12)]] supplies an activation or deactivation signal for a power transistor comprising:

a generator [[(Wa)]] of said auto-supply voltage [[(Vcc)]];

characterised in that it comprises a controlled switch [[(T)]] capable of selectively eonnecting coupling said generator [[(Wa)]] to said control circuit [[(12)]]; and

a driving circuit [[(SW2)]] of said controlled switch [[(T)]] that supplies a closing signal of said controlled switch [[(T)]] after a predefined time delay [[(Td)]] starting from said deactivation command.

- 2. (Currently Amended) Circuit in accordance with The circuit of claim 1 characterised in that it comprises further comprising a circuit generator (Ich, C. SW1) that generates said predefined time delay.
- 3. (Currently amended) Circuit in accordance with The circuit of claim [[(1)]] 2 characterised in that wherein said circuit generator (Ich, C, SW1) generates said predefined time delay proportionally to a voltage (Veomp) proportional to the load of said switching power supply.
- 4. (Currently amended) Circuit in accordance with The circuit of claim 1 characterised in that further comprising a first comparator (COM1) that compares a voltage (Vcomp) proportional to the load of said switching power supply with a first reference voltage [[(Vt1)]], said predefined time delay (Td) is being substantially [[nil]] zero when said voltage (Vcomp) proportional to the load of said switching power supply is lower than said first reference voltage (Vt1).
- 5. (Currently Amended) Circuit in accordance with The circuit of claim [[1]] 4 characterised in that further comprising a second comparator (COM2) that compares [[a]] the voltage (Vcomp) proportional to the load of said switching power supply with a second reference voltage [[(Vt2)]], said controlled switch (T) remains remaining open

when said voltage (Veomp) proportional to the load of said switching power supply is higher than said second reference voltage [[(Vt2)]].

- 6. (Currently amended) Circuit in-accordance with The circuit of claim 1 characterised in that wherein said driving circuit [[(12)]] of said controlled switch [[(T)]] supplies an opening signal of said controlled switch [[(T)]] starting from said activation command.
- 7. (Currently amended) Switching power supply comprising a The circuit for reducing the variations of the auto supply voltage of the control circuit of a switching power supply in accordance with of claim 1 wherein the controlled switch comprises a PNP transistor.
- 8. (Currently amended) Method A method for reducing the variations of [[the]] an auto-supply voltage [[(Vcc)]] of a control circuit [[(12)]] of a switching power supply [[where]] wherein said control circuit [[(12)]] supplies an activation or deactivation command signal [[of]] for a power transistor characterised in that it comprising selectively connects coupling the secondary of [[the]] a transformer [[(Wa)]] of said switching supply to said control circuit [[(12)]] after a predefined delay of time [[(Td)]] starting from said deactivation command.
- 9. (New) A switching power supply including a circuit to reduce the variations of an auto-supply voltage of a control circuit of the switching power supply wherein said control circuit supplies an activation or deactivation signal for a power transistor comprising:
  - a generator of said auto-supply voltage;
- a controlled switch operable for selectively coupling said generator to said control circuit; and
- a driving circuit of said controlled switch that supplies a closing signal of said controlled switch after a predefined time delay starting from said deactivation command.
- 10. (New) The switching power supply of claim 9 further comprising a circuit generator that generates said predefined time delay.
- 11. (New) The switching power supply of claim 10 wherein said circuit generator generates said predefined time delay proportionally to a voltage proportional to

the load of said switching power supply.

- 12. (New) The switching power supply of claim 9 further comprising a first comparator that compares a voltage proportional to the load of said switching power supply with a first reference voltage, said predefined time delay being substantially zero when said voltage proportional to the load of said switching power supply is lower than said first reference voltage.
- 13. (New) The switching power supply of claim 12 further comprising a second comparator that compares the voltage proportional to the load of said switching power supply with a second reference voltage, said controlled switch remaining open when said voltage proportional to the load of said switching power supply is higher than said second reference voltage.
- 14. (New) The switching power supply of claim 9 wherein said driving circuit of said controlled switch supplies an opening signal of said controlled switch starting from said activation command.
- 15. (New) The circuit of claim 9 wherein the controlled switch comprises a PNP transistor.